

**PITNEY COURT  
CHICAGO, ILLINOIS  
DATA VALIDATION REPORT**

**Date:** October 23, 2007

**Laboratory:** First Environmental Laboratories, Inc. (FEL), Naperville, Illinois

**Laboratory Project #:** 7-2750

**Data Validation Performed By:** Lisa Graczyk, Dynamac Corporation (Dynamac), subcontractor to Weston Solutions, Inc. (Weston)

**Weston Analytical Work Order #/TDD #:** 20405.016.003.0208.00 / S05-0003-0706-003

This data validation report has been prepared by Dynamac, a Weston subcontractor, under the START III Region V contract. This report documents the data validation for two soil samples collected for the Pitney Court Site that were analyzed for the following parameters and U.S. Environmental Protection Agency (U.S. EPA) methods:

- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) by SW-846 method 8260B
- Polynuclear Aromatic Hydrocarbons (PAH) by SW-846 method 8270C

A level III data package was requested from FEL. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Organic Data Review" dated October 1999. The attachment contains the results summary sheets.

**BTEX BY SW-846 METHOD 8260B**

**1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Analyzed</b>
PC-S-01-062007	7-2750-001	Soil	06/20/2007	06/21/2007
PC-S-02-062007	7-2750-002	Soil	06/20/2007	06/21/2007

**2. Holding Times**

The samples were analyzed within the required holding time limit of 14 days from sample collection to analysis.

3. **Instrument Performance Check**

The instrument performance check using bromofluorobenzene (BFB) was performed and met the ion abundance criteria specified in method 8260B.

4. **Calibration Results**

For the initial calibration, the percent relative standard deviations (%RSD) for all compounds were less than 30.

5. **Blanks**

A method blank was analyzed as required and was free of target compound contamination above the reporting limit.

6. **Surrogates**

The surrogate spike recoveries were within the laboratory established quality control (QC) limits.

7. **Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results**

FEL ran an MS and MSD using a sample from another site. No qualification is required for this omission.

8. **LCS Results**

All LCS recoveries and LCS duplicate recoveries were within the laboratory-established QC limits.

9. **Internal Standard Results**

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than  $\pm 30$  seconds from the retention time of the associated continuing calibration standard.

## 10. Overall Assessment

The BTEX data are acceptable for use based on the information received.

### PAHs BY SW-846 METHOD 8270C

#### 1. Samples

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>
PC-S-01-062007	7-2750-001	Soil	06/20/2007	06/20/2007	06/21/2007
PC-S-02-062007	7-2750-002	Soil	06/20/2007	06/20/2007	06/21/2007

#### 2. Holding Times

The samples were analyzed within the required holding time limit of 14 days from sample collection to extraction and 40 days from extraction to analysis.

#### 3. Instrument Performance Check

The instrument performance check using decafluorotriphenylphosphine (DFTPP) met the ion abundance criteria specified in method 8270C.

#### 4. Calibration Results

The initial calibration had acceptable results. The %RSD for all detected compounds were less than 30 and the average relative response factors were all greater than 0.05.

The %D in the CCV for all target compounds were within the QC limit of less than or equal to 20 percent for target compounds.

#### 5. Blanks

A method blank was analyzed with the samples and was free of target compound contamination.

**6. Surrogates**

Surrogate recoveries were within the laboratory established QC limits.

**7. MS and MSD Results**

FEL ran an MS and MSD using a sample from another site. No qualification is required for this omission.

**8. LCS Results**

The LCS recoveries were within the laboratory-established QC limits.

**9. Internal Standard Results**

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than  $\pm 30$  seconds from the retention time of the associated continuing calibration standard.

**10. Overall Assessment**

The PAH data are acceptable for use based on the information received.

Data Validation Report  
Pitney Court  
First Environmental Laboratories, Inc.  
Laboratory Project #: 7-2750

**ATTACHMENT**

**FIRST ENVIRONMENTAL LABORATORIES, INC.  
RESULTS SUMMARY**



1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233



**First  
Environmental  
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

**Analytical Report**

**Client:** DYNAMAC CORPORATION

**Project ID:** 05-PC-06/20/07-0001

**Sample ID:** Area 146

**Sample No:** 7-2750-002

**Date Collected:** 06/20/07

**Time Collected:**

**Date Received:** 06/20/07

**Date Reported:** 06/21/07

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b> <b>Method: 160.3</b>				
Analysis Date: 06/20/07				
Total Solids	81.04		%	
<b>BTEX Organic Compounds</b> <b>Method: 5035A/8260B</b>				
Analysis Date: 06/21/07				
Benzene	< 2.0	2.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
<b>Polynuclear Aromatic Hydrocarbons</b> <b>Method: 8270C</b> <b>Preparation Method 3540C</b>				
Analysis Date: 06/21/07				
			Preparation Date: 06/20/07	
Acenaphthene	< 50	50	ug/kg	
Acenaphthylene	< 50	50	ug/kg	
Anthracene	< 50	50	ug/kg	
Benzo(a)anthracene	< 8.7	8.7	ug/kg	
Benzo(a)pyrene	< 15	15	ug/kg	
Benzo(b)fluoranthene	< 11	11	ug/kg	
Benzo(k)fluoranthene	< 11	11	ug/kg	
Benzo(ghi)perylene	< 50	50	ug/kg	
Chrysene	< 50	50	ug/kg	
Dibenzo(a,h)anthracene	< 20	20	ug/kg	
Fluoranthene	< 50	50	ug/kg	
Fluorene	< 50	50	ug/kg	
Indeno(1,2,3-cd)pyrene	< 29	29	ug/kg	
Naphthalene	< 25	25	ug/kg	
Phenanthrene	< 50	50	ug/kg	
Pyrene	< 50	50	ug/kg	

**PITNEY COURT  
CHICAGO, ILLINOIS  
DATA VALIDATION REPORT**

**Date:** October 23, 2007

**Laboratory:** First Environmental Laboratories, Inc. (FEL), Naperville, Illinois

**Laboratory Project #:** 7-2841

**Data Validation Performed By:** Lisa Graczyk, Dynamac Corporation (Dynamac), subcontractor to Weston Solutions, Inc. (Weston)

**Weston Analytical Work Order #/TDD #:** 20405.016.003.0208.00/ S05-0003-0706-003

This data validation report has been prepared by Dynamac, a Weston subcontractor, under the START III Region V contract. This report documents the data validation for soil samples collected for the Pitney Court Site that were analyzed for the following parameters and U.S. Environmental Protection Agency (U.S. EPA) methods:

- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) by SW-846 method 8260B
- Polynuclear Aromatic Hydrocarbons (PAH) by SW-846 method 8270C
- Synthetic Precipitation Leaching Procedure (SPLP) Metals (chromium, lead, and selenium) by SW-846 methods 1312 and 6010B

A level III data package was requested from FEL. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Organic Data Review" dated October 1999 and the U.S. EPA "Contract Laboratory Program National Functional Guidelines for Inorganic Data Review" dated October 2004. The attachment contains the results summary sheets.

**BTEX BY SW-846 METHOD 8260B**

**1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Analyzed</b>
PC-S-01-062607	7-2841-001	Soil	06/26/2007	06/26/2007
PC-S-02-062607	7-2841-002	Soil	06/26/2007	06/26/2007

**2. Holding Times**

The samples were analyzed within the required holding time limit of 14 days from sample collection to analysis.



3. **Instrument Performance Check**

The instrument performance check using bromofluorobenzene (BFB) was performed and met the ion abundance criteria specified in method 8260B.

4. **Calibration Results**

For the initial calibration, the percent relative standard deviations (%RSD) for all compounds were less than 30.

5. **Blanks**

A method blank was analyzed as required and were free of target compound contamination above the reporting limit.

6. **Surrogates**

The surrogate spike recoveries were within the laboratory established quality control (QC) limits.

7. **Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results**

FEL ran an MS and MSD using a sample from another site as the spike. No qualifications are required for this omission.

8. **LCS Results**

All LCS recoveries and LCS duplicate recoveries were within the laboratory-established QC limits.

9. **Internal Standard Results**

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than  $\pm 30$  seconds from the retention time of the associated continuing calibration standard.

## 10. Overall Assessment

The BTEX data are acceptable for use based on the information received.

### PAHs BY SW-846 METHOD 8270C

#### 1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Prepared	Date Analyzed
PC-S-01-062607	7-2841-001	Soil	06/26/2007	06/27/2007	06/27/2007
PC-S-02-062607	7-2841-002	Soil	06/26/2007	06/27/2007	06/27/2007

#### 2. Holding Times

The sample was analyzed within the required holding time limit of 14 days from sample collection to extraction and 40 days from extraction to analysis.

#### 3. Instrument Performance Check

The instrument performance check using decafluorotriphenylphosphine (DFTPP) met the ion abundance criteria specified in method 8270C.

#### 4. Calibration Results

The initial calibration had acceptable results. The %RSD for all detected compounds were less than 30 and the average relative response factors were all greater than 0.05.

The %D in the CCV for all target compounds were within the QC limit of less than or equal to 20 percent for target compounds except for benzo(b)fluoranthene. The result for benzo(b)fluoranthene was flagged "J" as estimated for this discrepancy.

#### 5. Blanks

A method blank was analyzed with the samples and was free of target compound contamination.

**6. Surrogates**

Surrogate recoveries were within the laboratory established QC limits.

**7. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results**

FEL ran an MS and MSD using sample PC-S-01-062607 as the spike. The percent recoveries were within the laboratory-established QC limits except for fluorene, phenanthrene, anthracene, and fluoranthene which all had high recoveries. Detected results only for these compounds were flagged "J" as estimated for this discrepancy.

**8. LCS Results**

The LCS recoveries were within the laboratory-established QC limits.

**9. Internal Standard Results**

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than  $\pm 30$  seconds from the retention time of the associated continuing calibration standard.

**10. Overall Assessment**

The PAH data are acceptable for use as qualified.

**SPLP METALS BY SW-846 METHODS 1312 AND 6010B**

**1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
PC-S-02-062607	7-2841-002	Soil	06/26/2007	06/27/2007

**2. Holding Times**

The sample was analyzed within the required holding time limit of 180 days from sample collection to analysis.

**3. Calibrations**

The initial calibration verification (ICV) and continuing calibration verification (CCV) standards were within the QC limits of 90 to 110 percent recovery (%R).

**4. Blank Results**

A method blanks was analyzed with the sample and was free of target analyte contamination above the reporting limits.

**5. Interference Check Sample (ICS) Results**

The ICS solutions A and AB were analyzed. The percent recoveries in the ICS solution AB were within the QC limits of 80 to 120 percent recovery.

**6. Laboratory Control Sample (LCS) Results**

The LCS recoveries were within the laboratory-established QC limits for target analytes.

**7. Overall Assessment**

The metals data are acceptable for use based on the information received.

Data Validation Report  
Pitney Court  
First Environmental Laboratories, Inc.  
Laboratory Project #: 7-2841

**ATTACHMENT**

**FIRST ENVIRONMENTAL LABORATORIES, INC.  
RESULTS SUMMARY**



**First  
Environmental  
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

**Analytical Report**

**Client:** DYNAMAC CORPORATION

**Date Collected:** 06/26/07

**Project ID:** Pitney

**Time Collected:** 7:41

**Sample ID:** PC-S-01-062607

**Date Received:** 06/26/07

**Sample No:** 7-2841-001

**Date Reported:** 06/27/07

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, total</b> <span style="float: right;"><b>Method: 160.3</b></span>				
Analysis Date: 06/26/07				
Total Solids	77.35		%	
<b>BTEX Organic Compounds</b> <span style="float: right;"><b>Method: 5035A/8260B</b></span>				
Analysis Date: 06/26/07				
Benzene	< 2.0	2.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
<b>Polynuclear Aromatic Hydrocarbons</b> <span style="float: right;"><b>Method: 8270C</b></span>				
Analysis Date: 06/27/07				
		<b>Preparation Method 3540C</b>		
		Preparation Date: 06/27/07		
Acenaphthene	< 50	50	ug/kg	
Acenaphthylene	< 50	50	ug/kg	
Anthracene	< 50	50	ug/kg	
Benzo(a)anthracene	22.8	8.7	ug/kg	
Benzo(a)pyrene	18	15	ug/kg	
Benzo(b)fluoranthene	< 11	11	ug/kg	
Benzo(k)fluoranthene	< 11	11	ug/kg	
Benzo(ghi)perylene	< 50	50	ug/kg	
Carbazole	< 330	330	ug/kg	
Chrysene	< 50	50	ug/kg	
Dibenzo(a,h)anthracene	< 20	20	ug/kg	
Fluoranthene	< 50	50	ug/kg	
Fluorene	< 50	50	ug/kg	
Indeno(1,2,3-cd)pyrene	< 29	29	ug/kg	
2-Methylnaphthalene	< 50	50	ug/kg	
Naphthalene	51	25	ug/kg	
Phenanthrene	103 J	50	ug/kg	
Pyrene	< 50	50	ug/kg	

28  
10/23/07



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1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

**Analytical Report**

**Client:** DYNAMAC CORPORATION

**Project ID:** Pitney

**Sample ID:** PC-S-02-062607

**Sample No:** 7-2841-002

**Date Collected:** 06/26/07

**Time Collected:** 8:00

**Date Received:** 06/26/07

**Date Reported:** 06/27/07

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, total</b> <b>Method: 160.3</b>				
Analysis Date: 06/26/07				
Total Solids	78.16		%	
<b>BTEX Organic Compounds</b> <b>Method: 5035A/8260B</b>				
Analysis Date: 06/26/07				
Benzene	< 2.0	2.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
<b>Polynuclear Aromatic Hydrocarbons</b> <b>Method: 8270C</b> <b>Preparation Method 3540C</b>				
Analysis Date: 06/27/07 <b>Preparation Date: 06/27/07</b>				
Acenaphthene	< 50	50	ug/kg	
Acenaphthylene	< 50	50	ug/kg	
Anthracene	< 50	50	ug/kg	
Benzo(a)anthracene	< 8.7	8.7	ug/kg	
Benzo(a)pyrene	< 15	15	ug/kg	
Benzo(b)fluoranthene	< 11	11	ug/kg	
Benzo(k)fluoranthene	< 11	11	ug/kg	
Benzo(ghi)perylene	< 50	50	ug/kg	
Carbazole	< 330	330	ug/kg	
Chrysene	< 50	50	ug/kg	
Dibenzo(a,h)anthracene	< 20	20	ug/kg	
Fluoranthene	< 50	50	ug/kg	
Fluorene	< 50	50	ug/kg	
Indeno(1,2,3-cd)pyrene	< 29	29	ug/kg	
2-Methylnaphthalene	< 50	50	ug/kg	
Naphthalene	< 25	25	ug/kg	
Phenanthrene	< 50	50	ug/kg	
Pyrene	< 50	50	ug/kg	
<b>SPLP Metals Method 1312</b> <b>Method: 6010B</b> <b>Preparation Method 3010A</b>				
Analysis Date: 06/27/07 <b>Preparation Date: 06/26/07</b>				
Chromium	0.004	0.001	mg/L	
Lead	< 0.002	0.002	mg/L	
Selenium	< 0.002	0.002	mg/L	

**PITNEY COURT  
CHICAGO, ILLINOIS  
DATA VALIDATION REPORT**

**Date:** October 24, 2007

**Laboratory:** First Environmental Laboratories, Inc. (FEL), Naperville, Illinois

**Laboratory Project #:** 7-2916

**Data Validation Performed By:** Lisa Graczyk, Dynamac Corporation (Dynamac), subcontractor to Weston Solutions, Inc. (Weston)

**Weston Analytical Work Order #/TDD #:** 20405.016.003.0208.00/ S05-0003-0706-003

This data validation report has been prepared by Dynamac, a Weston subcontractor, under the START III Region V contract. This report documents the data validation for two soil samples collected for the Pitney Court Site that were analyzed for the following parameters and U.S. Environmental Protection Agency (U.S. EPA) methods:

- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) by SW-846 method 8260B
- Polynuclear Aromatic Hydrocarbons (PAH) by SW-846 method 8270C

A level III data package was requested from FEL. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Organic Data Review" dated October 1999. The attachment contains the results summary sheets.

**BTEX BY SW-846 METHOD 8260B**

**1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Analyzed</b>
PC-S-01-062907	7-2916-001	Soil	06/29/2007	07/02/2007
PC-S-02-062907	7-2916-002	Soil	06/29/2007	07/02/2007

**2. Holding Times**

The samples were analyzed within the required holding time limit of 14 days from sample collection to analysis.



**3. Instrument Performance Check**

The instrument performance check using bromofluorobenzene (BFB) was performed and met the ion abundance criteria specified in method 8260B.

**4. Calibration Results**

For the initial calibration, the percent relative standard deviations (%RSD) for all compounds were less than 30.

The percent differences in the continuing calibration standard for all target compounds were within the control limit of less than or equal to 25 percent.

**5. Blanks**

A method blank was analyzed as required and was free of target compound contamination above the reporting limit.

**6. Surrogates**

The surrogate spike recoveries were within the laboratory established quality control (QC) limits.

**7. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results**

FEL ran an MS and MSD using a sample from another site. No qualification is required for this omission.

**8. Laboratory Control Sample (LCS) Results**

All LCS recoveries and LCS duplicate recoveries were within the laboratory-established QC limits.

**9. Internal Standard Results**

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than  $\pm 30$  seconds from the retention time of the associated continuing calibration standard.

## 10. **Overall Assessment**

The BTEX data are acceptable for use based on the information received.

### **PAHs BY SW-846 METHOD 8270C**

#### 1. **Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>
PC-S-01-062907	7-2916-001	Soil	06/29/2007	07/02/2007	07/02/2007
PC-S-02-062907	7-2916-002	Soil	06/29/2007	07/02/2007	07/02/2007

#### 2. **Holding Times**

The samples were analyzed within the required holding time limit of 14 days from sample collection to extraction and 40 days from extraction to analysis.

#### 3. **Instrument Performance Check**

The instrument performance check using decafluorotriphenylphosphine (DFTPP) met the ion abundance criteria specified in method 8270C.

#### 4. **Calibration Results**

The initial calibration had acceptable results. The %RSD for all detected compounds were less than 30 and the average relative response factors were all greater than 0.05.

The %D in the CCV for all target compounds were within the QC limit of less than or equal to 20 percent for target compounds except for benzo(b)fluoranthene. The quantitation limits for benzo(b)fluoranthene were flagged "UJ" as estimated for this discrepancy.

#### 5. **Blanks**

A method blank was analyzed with the samples and was free of target compound contamination.

**6. Surrogates**

Surrogate recoveries were within the laboratory-established QC limits.

**7. MS and MSD Results**

FEL ran an MS and MSD using sample PC-S-01-062907 as the spike. The percent recoveries were within the laboratory-established QC limits.

**8. LCS Results**

The LCS recoveries were within the laboratory-established QC limits.

**9. Internal Standard Results**

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than  $\pm 30$  seconds from the retention time of the associated continuing calibration standard.

**10. Overall Assessment**

The PAH data are acceptable for use as qualified based on the information received.

Data Validation Report  
Pitney Court  
First Environmental Laboratories, Inc.  
Laboratory Project #: 7-2916

**ATTACHMENT**

**FIRST ENVIRONMENTAL LABORATORIES, INC.  
RESULTS SUMMARY**



**First  
Environmental  
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

**Analytical Report**

**Client:** DYNAMAC CORPORATION

**Date Collected:** 06/29/07

**Project ID:** # 05-PC

**Time Collected:** 7:35

**Sample ID:** PC-S-01-062907

**Date Received:** 06/29/07

**Sample No:** 7-2916-001

**Date Reported:** 07/03/07

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, total</b> Method: 160.3				
Analysis Date: 07/02/07				
Total Solids	75.41		%	
<b>BTEX Organic Compounds</b> Method: 5035A/8260B				
Analysis Date: 07/02/07				
Benzene	< 2.0	2.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
<b>Polynuclear Aromatic Hydrocarbons</b> Method: 8270C Preparation Method 3540C				
Analysis Date: 07/02/07				
		Preparation Date: 07/02/07		
Acenaphthene	< 50	50	ug/kg	
Acenaphthylene	< 50	50	ug/kg	
Anthracene	< 50	50	ug/kg	
Benzo(a)anthracene	< 8.7	8.7	ug/kg	
Benzo(a)pyrene	< 15	15	ug/kg	
Benzo(b)fluoranthene	< 11	11	ug/kg	
Benzo(k)fluoranthene	< 11	11	ug/kg	
Benzo(ghi)perylene	< 50	50	ug/kg	
Carbazole	< 330	330	ug/kg	
Chrysene	< 50	50	ug/kg	
Dibenzo(a,h)anthracene	< 20	20	ug/kg	
Fluoranthene	< 50	50	ug/kg	
Fluorene	< 50	50	ug/kg	
Indeno(1,2,3-cd)pyrene	< 29	29	ug/kg	
Naphthalene	< 25	25	ug/kg	
Phenanthrene	< 50	50	ug/kg	
Pyrene	< 50	50	ug/kg	
2-Methylnaphthalene	< 50	50	ug/kg	

28  
10/24/07



**First  
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1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

**Analytical Report**

**Client:** DYNAMAC CORPORATION

**Date Collected:** 06/29/07

**Project ID:** # 05-PC

**Time Collected:** 7:50

**Sample ID:** PC-S-02-062907

**Date Received:** 06/29/07

**Sample No:** 7-2916-002

**Date Reported:** 07/03/07

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, total</b> Method: 160.3				
Analysis Date: 07/02/07				
Total Solids	79.92		%	
<b>BTEX Organic Compounds</b> Method: 5035A/8260B				
Analysis Date: 07/02/07				
Benzene	< 2.0	2.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
<b>Polynuclear Aromatic Hydrocarbons</b> Method: 8270C				
Analysis Date: 07/02/07				
		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/02/07		
Acenaphthene	< 50	50	ug/kg	
Acenaphthylene	< 50	50	ug/kg	
Anthracene	< 50	50	ug/kg	
Benzo(a)anthracene	< 8.7	8.7	ug/kg	
Benzo(a)pyrene	< 15	15	ug/kg	
Benzo(b)fluoranthene	< 11 <i>UJ</i>	11	ug/kg	
Benzo(k)fluoranthene	< 11	11	ug/kg	
Benzo(ghi)perylene	< 50	50	ug/kg	
Carbazole	< 330	330	ug/kg	
Chrysene	< 50	50	ug/kg	
Dibenzo(a,h)anthracene	< 20	20	ug/kg	
Fluoranthene	< 50	50	ug/kg	
Fluorene	< 50	50	ug/kg	
Indeno(1,2,3-cd)pyrene	< 29	29	ug/kg	
Naphthalene	< 25	25	ug/kg	
Phenanthrene	< 50	50	ug/kg	
Pyrene	< 50	50	ug/kg	
2-Methylnaphthalene	< 50	50	ug/kg	

*28*  
*10/24/07*

**PITNEY COURT  
CHICAGO, ILLINOIS  
DATA VALIDATION REPORT**

**Date:** October 24, 2007

**Laboratory:** First Environmental Laboratories, Inc. (FEL), Naperville, Illinois

**Laboratory Project #:** 7-3026

**Data Validation Performed By:** Lisa Graczyk, Dynamac Corporation (Dynamac), subcontractor to Weston Solutions, Inc. (Weston)

**Weston Analytical Work Order #/TDD #:** 20405.016.003.0208.00/S05-0003-0706-003

This data validation report has been prepared by Dynamac, a Weston subcontractor, under the START III Region V contract. This report documents the data validation for soil samples collected for the Pitney Court Site that were analyzed for the following parameters and U.S. Environmental Protection Agency (U.S. EPA) methods:

- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) by SW-846 method 8260B
- Polynuclear Aromatic Hydrocarbons (PAH) by SW-846 method 8270C
- Synthetic Precipitation Leaching Procedure (SPLP) Metals (chromium, lead, and selenium) by SW-846 methods 1312 and 6010B

A level III data package was requested from FEL. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Organic Data Review" dated October 1999 and the U.S. EPA "Contract Laboratory Program National Functional Guidelines for Inorganic Data Review" dated October 2004. The attachment contains the results summary sheets.

**BTEX BY SW-846 METHOD 8260B**

**1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Analyzed</b>
PC-S-01-070907	7-3026-001	Soil	07/09/2007	07/09/2007
PC-S-02-070907	7-3026-002	Soil	07/09/2007	07/09/2007
PC-S-03-070907	7-3026-003	Soil	07/09/2007	07/09/2007

**2. Holding Times**

The samples were analyzed within the required holding time limit of 14 days from sample collection to analysis.

**3. Instrument Performance Check**

The instrument performance check using bromofluorobenzene (BFB) was performed and met the ion abundance criteria specified in method 8260B.

**4. Calibration Results**

For the initial calibration, the percent relative standard deviations (%RSD) for all compounds were less than 30.

The percent differences in the continuing calibration standard for all target compounds were within the control limit of less than or equal to 25 percent.

**5. Blanks**

A method blank was analyzed as required and was free of target compound contamination above the reporting limit.

**6. Surrogates**

The surrogate spike recoveries were within the laboratory established quality control (QC) limits.

**7. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results**

FEL ran an MS and MSD using a sample from another site as the spike. No qualifications are required for this omission.

**8. Laboratory Control Sample (LCS) Results**

All LCS recoveries and LCS duplicate recoveries were within the laboratory-established QC limits.

**9. Internal Standard Results**

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than  $\pm 30$  seconds from the retention time of the associated continuing calibration standard.



## 10. Overall Assessment

The BTEX data are acceptable for use based on the information received.

### PAHs BY SW-846 METHOD 8270C

#### 1. Samples

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>
PC-S-01-070907	7-3026-001	Soil	07/09/2007	07/10/2007	07/10/2007
PC-S-02-070907	7-3026-002	Soil	07/09/2007	07/10/2007	07/10/2007
PC-S-03-070907	7-3026-003	Soil	07/09/2007	07/10/2007	07/10/2007

#### 2. Holding Times

The sample was analyzed within the required holding time limit of 14 days from sample collection to extraction and 40 days from extraction to analysis.

#### 3. Instrument Performance Check

The instrument performance check using decafluorotriphenylphosphine (DFTPP) met the ion abundance criteria specified in method 8270C.

#### 4. Calibration Results

The initial calibration had acceptable results. The %RSD for all detected compounds were less than 30 and the average relative response factors were all greater than 0.05.

The %D in the CCV for all target compounds were within the QC limit of less than or equal to 20 percent for target compounds.

#### 5. Blanks

A method blank was analyzed with the samples and was free of target compound contamination.

**6. Surrogates**

Surrogate recoveries were within the laboratory established QC limits.

**7. MS and MSD Results**

FEL ran an MS and MSD using sample PC-S-01-070907 as the spike. The percent recoveries were within the laboratory-established QC limits.

**8. LCS Results**

The LCS recoveries were within the laboratory-established QC limits.

**9. Internal Standard Results**

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than  $\pm 30$  seconds from the retention time of the associated continuing calibration standard.

**10. Overall Assessment**

The PAH data are acceptable for use based on the information received.

**SPLP METALS BY SW-846 METHODS 1312 AND 6010B**

**1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
PC-S-02-070907	7-3026-002	Soil	07/09/2007	07/11/2007

**2. Holding Times**

The sample was analyzed within the required holding time limit of 180 days from sample collection to analysis.

**3. Calibrations**

The initial calibration verification (ICV) and continuing calibration verification (CCV) standards were within the QC limits of 90 to 110 percent recovery (%R).

**4. Blank Results**

A method blanks was analyzed with the sample and was free of target analyte contamination above the reporting limits.

**5. Interference Check Sample (ICS) Results**

The ICS solutions A and AB were analyzed. The percent recoveries in the ICS solution AB were within the QC limits of 80 to 120 percent recovery.

**6. Laboratory Control Sample (LCS) Results**

The LCS recoveries were within the laboratory-established QC limits for target analytes.

**7. Overall Assessment**

The metals data are acceptable for use based on the information received.

Data Validation Report  
Pitney Court  
First Environmental Laboratories, Inc.  
Laboratory Project #: 7-3026

**ATTACHMENT**

**FIRST ENVIRONMENTAL LABORATORIES, INC.  
RESULTS SUMMARY**



**First  
Environmental  
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

**Analytical Report**

**Client:** DYNAMAC CORPORATION

**Date Collected:** 07/09/07

**Project ID:** 05-PC-07/09/07-004

**Time Collected:**

**Sample ID:** PC-S-01-070907

**Date Received:** 07/09/07

**Sample No:** 7-3026-001

**Date Reported:** 07/16/07

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b> <b>Method: 160.3</b>				
Analysis Date: 07/09/07				
Total Solids	76.94		%	
<b>BTEX Organic Compounds</b> <b>Method: 5035A/8260B</b>				
Analysis Date: 07/09/07				
Benzene	< 2.0	2.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
<b>Polynuclear Aromatic Hydrocarbons</b> <b>Method: 8270C</b> <b>Preparation Method 3540C</b>				
Analysis Date: 07/10/07 <b>Preparation Date: 07/10/07</b>				
Acenaphthene	< 50	50	ug/kg	
Acenaphthylene	< 50	50	ug/kg	
Anthracene	< 50	50	ug/kg	
Benzo(a)anthracene	13.4	8.7	ug/kg	
Benzo(a)pyrene	< 15	15	ug/kg	
Benzo(b)fluoranthene	< 11	11	ug/kg	
Benzo(k)fluoranthene	< 11	11	ug/kg	
Benzo(ghi)perylene	< 50	50	ug/kg	
Chrysene	< 50	50	ug/kg	
Dibenzo(a,h)anthracene	< 20	20	ug/kg	
Fluoranthene	< 50	50	ug/kg	
Fluorene	< 50	50	ug/kg	
Indeno(1,2,3-cd)pyrene	< 29	29	ug/kg	
Naphthalene	< 25	25	ug/kg	
Phenanthrene	68	50	ug/kg	
Pyrene	< 50	50	ug/kg	
2-Methylnaphthalene	< 50	50	ug/kg	
Carbazole	< 330	330	ug/kg	



**First  
Environmental  
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292  
1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

**Analytical Report**

**Client:** DYNAMAC CORPORATION

**Date Collected:** 07/09/07

**Project ID:** 05-PC-07/09/07-004

**Time Collected:**

**Sample ID:** PC-S-02-070907

**Date Received:** 07/09/07

**Sample No:** 7-3026-002

**Date Reported:** 07/16/07

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b> Method: 160.3				
Analysis Date: 07/09/07				
Total Solids	75.76		%	
<b>BTEX Organic Compounds</b> Method: 5035A/8260B				
Analysis Date: 07/09/07				
Benzene	< 2.0	2.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
<b>Polynuclear Aromatic Hydrocarbons</b> Method: 8270C				
Analysis Date: 07/10/07				
Preparation Method 3540C				
Preparation Date: 07/10/07				
Acenaphthene	< 50	50	ug/kg	
Acenaphthylene	< 50	50	ug/kg	
Anthracene	< 50	50	ug/kg	
Benzo(a)anthracene	< 8.7	8.7	ug/kg	
Benzo(a)pyrene	< 15	15	ug/kg	
Benzo(b)fluoranthene	< 11	11	ug/kg	
Benzo(k)fluoranthene	< 11	11	ug/kg	
Benzo(ghi)perylene	< 50	50	ug/kg	
Chrysene	< 50	50	ug/kg	
Dibenzo(a,h)anthracene	< 20	20	ug/kg	
Fluoranthene	< 50	50	ug/kg	
Fluorene	< 50	50	ug/kg	
Indeno(1,2,3-cd)pyrene	< 29	29	ug/kg	
Naphthalene	< 25	25	ug/kg	
Phenanthrene	< 50	50	ug/kg	
Pyrene	< 50	50	ug/kg	
2-Methylnaphthalene	< 50	50	ug/kg	
Carbazole	< 330	330	ug/kg	
<b>SPLP Metals Method 1312</b> Method: 6010B				
Analysis Date: 07/11/07				
Preparation Method 3010A				
Preparation Date: 07/10/07				
Chromium	0.003	0.001	mg/L	
Lead	< 0.002	0.002	mg/L	
Selenium	< 0.002	0.002	mg/L	



**First  
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Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

**Analytical Report**

**Client:** DYNAMAC CORPORATION

**Date Collected:** 07/09/07

**Project ID:** 05-PC-07/09/07-004

**Time Collected:**

**Sample ID:** PC-S-03-070907

**Date Received:** 07/09/07

**Sample No:** 7-3026-003

**Date Reported:** 07/16/07

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b> <b>Method: 160.3</b>				
Analysis Date: 07/09/07				
Total Solids	74.66		%	
<b>BTEX Organic Compounds</b> <b>Method: 5035A/8260B</b>				
Analysis Date: 07/09/07				
Benzene	< 2.0	2.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
<b>Polynuclear Aromatic Hydrocarbons</b> <b>Method: 8270C</b> <b>Preparation Method 3540C</b>				
Analysis Date: 07/10/07 <b>Preparation Date: 07/10/07</b>				
Acenaphthene	< 50	50	ug/kg	
Acenaphthylene	< 50	50	ug/kg	
Anthracene	< 50	50	ug/kg	
Benzo(a)anthracene	< 8.7	8.7	ug/kg	
Benzo(a)pyrene	< 15	15	ug/kg	
Benzo(b)fluoranthene	< 11	11	ug/kg	
Benzo(k)fluoranthene	< 11	11	ug/kg	
Benzo(ghi)perylene	< 50	50	ug/kg	
Chrysene	< 50	50	ug/kg	
Dibenzo(a,h)anthracene	< 20	20	ug/kg	
Fluoranthene	< 50	50	ug/kg	
Fluorene	< 50	50	ug/kg	
Indeno(1,2,3-cd)pyrene	< 29	29	ug/kg	
Naphthalene	< 25	25	ug/kg	
Phenanthrene	< 50	50	ug/kg	
Pyrene	< 50	50	ug/kg	
2-Methylnaphthalene	< 50	50	ug/kg	
Carbazole	< 330	330	ug/kg	

**PITNEY COURT  
CHICAGO, ILLINOIS  
DATA VALIDATION REPORT**

**Date:** October 24, 2007

**Laboratory:** First Environmental Laboratories, Inc. (FEL), Naperville, Illinois

**Laboratory Project #:** 7-3225

**Data Validation Performed By:** Lisa Graczyk, Dynamac Corporation (Dynamac), subcontractor to Weston Solutions, Inc. (Weston)

**Weston Analytical Work Order #/TDD #:** 20405.016.003.0208.00/S05-0003-0706-003

This data validation report has been prepared by Dynamac, a Weston subcontractor, under the START III Region V contract. This report documents the data validation for two soil samples collected for the Pitney Court Site that were analyzed for the following parameters and U.S. Environmental Protection Agency (U.S. EPA) methods:

- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) by SW-846 method 8260B
- Polynuclear Aromatic Hydrocarbons (PAH) by SW-846 method 8270C

A level III data package was requested from FEL. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Organic Data Review" dated October 1999. The attachment contains the results summary sheets.

**BTEX BY SW-846 METHOD 8260B**

**1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Analyzed</b>
PC-S-01-072007	7-3225-001	Soil	07/20/2007	07/20/2007
PC-S-02-072007	7-3225-002	Soil	07/20/2007	07/20/2007

**2. Holding Times**

The samples were analyzed within the required holding time limit of 14 days from sample collection to analysis.



**3. Instrument Performance Check**

The instrument performance check using bromofluorobenzene (BFB) was performed and met the ion abundance criteria specified in method 8260B.

**4. Calibration Results**

For the initial calibration, the percent relative standard deviations (%RSD) for all compounds were less than 30.

The percent differences in the continuing calibration standard for all target compounds were within the control limit of less than or equal to 25 percent.

**5. Blanks**

A method blank was analyzed as required and was free of target compound contamination above the reporting limit.

**6. Surrogates**

The surrogate spike recoveries were within the laboratory-established quality control (QC) limits.

**7. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results**

FEL ran an MS and MSD using sample PC-S-01-072007 as the spike. The percent recoveries for target compounds were within the laboratory-established QC limits.

**8. Laboratory Control Sample (LCS) Results**

All LCS recoveries and LCS duplicate recoveries were within the laboratory-established QC limits.

**9. Internal Standard Results**

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than  $\pm 30$  seconds from the retention time of the associated continuing calibration standard.

## 10. Overall Assessment

The BTEX data are acceptable for use based on the information received.

### PAHs BY SW-846 METHOD 8270C

#### 1. Samples

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>
PC-S-01-072007	7-3225-001	Soil	07/20/2007	07/23/2007	07/23/2007
PC-S-02-072007	7-3225-002	Soil	07/20/2007	07/23/2007	07/23/2007

#### 2. Holding Times

The samples were analyzed within the required holding time limit of 14 days from sample collection to extraction and 40 days from extraction to analysis.

#### 3. Instrument Performance Check

The instrument performance check using decafluorotriphenylphosphine (DFTPP) met the ion abundance criteria specified in method 8270C.

#### 4. Calibration Results

The initial calibration had acceptable results. The %RSD for all detected compounds were less than 30 and the average relative response factors were all greater than 0.05.

The %D in the CCV for all target compounds were within the QC limit of less than or equal to 20 percent for target compounds.

#### 5. Blanks

A method blank was analyzed with the samples and was free of target compound contamination.

**6. Surrogates**

Surrogate recoveries were within the laboratory-established QC limits.

**7. MS and MSD Results**

FEL ran an MS and MSD using sample PC-S-02-072007 as the spike. The percent recoveries were within the laboratory-established QC limits.

**8. LCS Results**

The LCS recoveries were within the laboratory-established QC limits.

**9. Internal Standard Results**

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than  $\pm 30$  seconds from the retention time of the associated continuing calibration standard.

**10. Overall Assessment**

The PAH data are acceptable for use based on the information received.

Data Validation Report  
Pitney Court  
First Environmental Laboratories, Inc.  
Laboratory Project #: 7-3225

**ATTACHMENT**

**FIRST ENVIRONMENTAL LABORATORIES, INC.  
RESULTS SUMMARY**



**First  
Environmental  
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

**Analytical Report**

**Client:** DYNAMAC CORPORATION

**Date Collected:** 07/20/07

**Project ID:** # 05-PC

**Time Collected:** 8:15

**Sample ID:** PC-S-01-072007

**Date Received:** 07/20/07

**Sample No:** 7-3225-001

**Date Reported:** 07/23/07

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b> Method: 160.3				
Analysis Date: 07/20/07				
Total Solids	82.35		%	
<b>BTEX Organic Compounds</b> Method: 5035A/8260B				
Analysis Date: 07/20/07				
Benzene	< 2.0	2.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
<b>Polynuclear Aromatic Hydrocarbons</b> Method: 8270C				
Analysis Date: 07/23/07				
		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/23/07		
Acenaphthene	< 50	50	ug/kg	
Acenaphthylene	< 50	50	ug/kg	
Anthracene	< 50	50	ug/kg	
Benzo(a)anthracene	< 8.7	8.7	ug/kg	
Benzo(a)pyrene	< 15	15	ug/kg	
Benzo(b)fluoranthene	< 11	11	ug/kg	
Benzo(k)fluoranthene	< 11	11	ug/kg	
Benzo(ghi)perylene	< 50	50	ug/kg	
Carbazole	< 330	330	ug/kg	
Chrysene	< 50	50	ug/kg	
Dibenzo(a,h)anthracene	< 20	20	ug/kg	
Fluoranthene	< 50	50	ug/kg	
Fluorene	< 50	50	ug/kg	
Indeno(1,2,3-cd)pyrene	< 29	29	ug/kg	
2-Methylnaphthalene	< 50	50	ug/kg	
Naphthalene	< 25	25	ug/kg	
Phenanthrene	< 50	50	ug/kg	
Pyrene	< 50	50	ug/kg	



**First  
Environmental  
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

**Analytical Report**

**Client:** DYNAMAC CORPORATION

**Project ID:** # 05-PC

**Sample ID:** PC-S-02-072007

**Sample No:** 7-3225-002

**Date Collected:** 07/20/07

**Time Collected:** 8:00

**Date Received:** 07/20/07

**Date Reported:** 07/23/07

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b> Method: 160.3				
Analysis Date: 07/20/07				
Total Solids	76.53		%	
<b>BTEX Organic Compounds</b> Method: 5035A/8260B				
Analysis Date: 07/20/07				
Benzene	< 2.0	2.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
<b>Polynuclear Aromatic Hydrocarbons</b> Method: 8270C				
Analysis Date: 07/23/07				
		<b>Preparation Method 3540C</b>		
		Preparation Date: 07/23/07		
Acenaphthene	< 50	50	ug/kg	
Acenaphthylene	< 50	50	ug/kg	
Anthracene	< 50	50	ug/kg	
Benzo(a)anthracene	< 8.7	8.7	ug/kg	
Benzo(a)pyrene	< 15	15	ug/kg	
Benzo(b)fluoranthene	< 11	11	ug/kg	
Benzo(k)fluoranthene	< 11	11	ug/kg	
Benzo(ghi)perylene	< 50	50	ug/kg	
Carbazole	< 330	330	ug/kg	
Chrysene	< 50	50	ug/kg	
Dibenzo(a,h)anthracene	< 20	20	ug/kg	
Fluoranthene	< 50	50	ug/kg	
Fluorene	< 50	50	ug/kg	
Indeno(1,2,3-cd)pyrene	< 29	29	ug/kg	
2-Methylnaphthalene	< 50	50	ug/kg	
Naphthalene	< 25	25	ug/kg	
Phenanthrene	< 50	50	ug/kg	
Pyrene	< 50	50	ug/kg	

**PITNEY COURT  
CHICAGO, ILLINOIS  
DATA VALIDATION REPORT**

**Date:** October 24, 2007

**Laboratory:** First Environmental Laboratories, Inc. (FEL), Naperville, Illinois

**Laboratory Project #:** 7-3574

**Data Validation Performed By:** Lisa Graczyk, Dynamac Corporation (Dynamac), subcontractor to Weston Solutions, Inc. (Weston)

**Weston Analytical Work Order #/TDD #:** 20405.016.003.0208.00/S05-0003-0706-003

This data validation report has been prepared by Dynamac, a Weston subcontractor, under the START III Region V contract. This report documents the data validation for one soil sample collected for the Pitney Court Site that was analyzed for the following parameters and U.S. Environmental Protection Agency (U.S. EPA) methods:

- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) by SW-846 method 8260B
- Polynuclear Aromatic Hydrocarbons (PAH) by SW-846 method 8270C

A level III data package was requested from FEL. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Organic Data Review" dated October 1999. The attachment contains the results summary sheets.

**BTEX BY SW-846 METHOD 8260B**

**1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Analyzed</b>
PC-S-01-081007	7-3574-001	Soil	08/10/2007	08/11/2007

**2. Holding Times**

The sample was analyzed within the required holding time limit of 14 days from sample collection to analysis.

3. **Instrument Performance Check**

The instrument performance check using bromofluorobenzene (BFB) was performed and met the ion abundance criteria specified in method 8260B.

4. **Calibration Results**

For the initial calibration, the percent relative standard deviations (%RSD) for all compounds were less than 30.

The percent differences in the continuing calibration standard for all target compounds were within the control limit of less than or equal to 25 percent.

5. **Blanks**

A method blank was analyzed as required and was free of target compound contamination above the reporting limit.

6. **Surrogates**

The surrogate spike recoveries were within the laboratory-established quality control (QC) limits.

7. **Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results**

FEL ran an MS and MSD using sample PC-S-01-081007 as the spike. The percent recoveries for target compounds were within the laboratory-established QC limits.

8. **Laboratory Control Sample (LCS) Results**

All LCS recoveries and LCS duplicate recoveries were within the laboratory-established QC limits.

9. **Internal Standard Results**

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than  $\pm 30$  seconds from the retention time of the associated continuing calibration standard.



## 10. **Overall Assessment**

The BTEX data are acceptable for use based on the information received.

### **PAHs BY SW-846 METHOD 8270C**

#### 1. **Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>
PC-S-01-081007	7-3574-001	Soil	08/10/2007	08/12/2007	08/13/2007

#### 2. **Holding Times**

The samples was analyzed within the required holding time limit of 14 days from sample collection to extraction and 40 days from extraction to analysis.

#### 3. **Instrument Performance Check**

The instrument performance check using decafluorotriphenylphosphine (DFTPP) met the ion abundance criteria specified in method 8270C.

#### 4. **Calibration Results**

The initial calibration had acceptable results. The %RSD for all detected compounds were less than 30 and the average relative response factors were all greater than 0.05.

The %D in the CCV for all target compounds were within the QC limit of less than or equal to 20 percent for target compounds.

#### 5. **Blanks**

A method blank was analyzed with the samples and was free of target compound contamination.

**6. Surrogates**

Surrogate recoveries were within the laboratory-established QC limits.

**7. MS and MSD Results**

FEL ran an MS and MSD using sample PC-S-01-081007 as the spike. The percent recoveries were within the laboratory-established QC limits.

**8. LCS Results**

The LCS recoveries were within the laboratory-established QC limits.

**9. Internal Standard Results**

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than  $\pm 30$  seconds from the retention time of the associated continuing calibration standard.

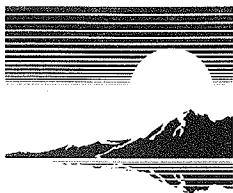
**10. Overall Assessment**

The PAH data are acceptable for use based on the information received.

Data Validation Report  
Pitney Court  
First Environmental Laboratories, Inc.  
Laboratory Project #: 7-3574

**ATTACHMENT**

**FIRST ENVIRONMENTAL LABORATORIES, INC.  
RESULTS SUMMARY**



**First  
Environmental  
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** 05-PC-08/10/07-006  
**Sample ID:** PC-S-01-081007  
**Sample No:** 7-3574-001

**Date Collected:** 08/10/07  
**Time Collected:** 8:15  
**Date Received:** 08/10/07  
**Date Reported:** 08/13/07

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b> <b>Method: 160.3</b>				
Analysis Date: 08/10/07				
Total Solids	75.65		%	
<b>BTEX Organic Compounds</b> <b>Method: 5035A/8260B</b>				
Analysis Date: 08/11/07				
Benzene	< 2.0	2.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
<b>Polynuclear Aromatic Hydrocarbons</b> <b>Method: 8270C</b> <b>Preparation Method 3540C</b>				
Analysis Date: 08/13/07 <b>Preparation Date: 08/12/07</b>				
Acenaphthene	< 50	50	ug/kg	
Acenaphthylene	< 50	50	ug/kg	
Anthracene	< 50	50	ug/kg	
Benzo(a)anthracene	< 8.7	8.7	ug/kg	
Benzo(a)pyrene	< 15	15	ug/kg	
Benzo(b)fluoranthene	< 11	11	ug/kg	
Benzo(k)fluoranthene	< 11	11	ug/kg	
Benzo(ghi)perylene	< 50	50	ug/kg	
Carbazole	< 330	330	ug/kg	
Chrysene	< 50	50	ug/kg	
Dibenzo(a,h)anthracene	< 20	20	ug/kg	
Fluoranthene	< 50	50	ug/kg	
Fluorene	< 50	50	ug/kg	
Indeno(1,2,3-cd)pyrene	< 29	29	ug/kg	
2-Methylnaphthalene	< 50	50	ug/kg	
Naphthalene	< 25	25	ug/kg	
Phenanthrene	< 50	50	ug/kg	
Pyrene	< 50	50	ug/kg	

**PITNEY COURT  
CHICAGO, ILLINOIS  
DATA VALIDATION REPORT**

**Date:** October 24, 2007

**Laboratory:** First Environmental Laboratories, Inc. (FEL), Naperville, Illinois

**Laboratory Project #:** 7-3876

**Data Validation Performed By:** Lisa Graczyk, Dynamac Corporation (Dynamac), subcontractor to Weston Solutions, Inc. (Weston)

**Weston Analytical Work Order #/TDD #:** 20405.016.003.0208.00/S05-0003-0706-003

This data validation report has been prepared by Dynamac, a Weston subcontractor, under the START III Region V contract. This report documents the data validation for one soil sample collected for the Pitney Court Site that was analyzed for the following parameters and U.S. Environmental Protection Agency (U.S. EPA) methods:

- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) by SW-846 method 8260B
- Polynuclear Aromatic Hydrocarbons (PAH) by SW-846 method 8270C

A level III data package was requested from FEL. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Organic Data Review" dated October 1999. The attachment contains the results summary sheets.

**BTEX BY SW-846 METHOD 8260B**

**1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Analyzed</b>
PC-S-01-083007	7-3876-001	Soil	08/30/2007	08/30/2007

**2. Holding Times**

The sample was analyzed within the required holding time limit of 14 days from sample collection to analysis.

**3. Instrument Performance Check**

The instrument performance check using bromofluorobenzene (BFB) was performed and met the ion abundance criteria specified in method 8260B.

**4. Calibration Results**

For the initial calibration, the percent relative standard deviations (%RSD) for all compounds were less than 30.

The percent differences in the continuing calibration standard for all target compounds were within the control limit of less than or equal to 25 percent.

**5. Blanks**

A method blank was analyzed as required and was free of target compound contamination above the reporting limit.

**6. Surrogates**

The surrogate spike recoveries were within the laboratory-established quality control (QC) limits.

**7. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results**

FEL ran an MS and MSD using a sample from another site as the spike. No qualifications are applied for this omission.

**8. Laboratory Control Sample (LCS) Results**

All LCS recoveries and LCS duplicate recoveries were within the laboratory-established QC limits.

**9. Internal Standard Results**

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than  $\pm 30$  seconds from the retention time of the associated continuing calibration standard.

## 10. **Overall Assessment**

The BTEX data are acceptable for use based on the information received.

### **PAHs BY SW-846 METHOD 8270C**

#### 1. **Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>
PC-S-01-083007	7-3876-001	Soil	08/30/2007	08/31/2007	08/31/2007

#### 2. **Holding Times**

The sample was analyzed within the required holding time limit of 14 days from sample collection to extraction and 40 days from extraction to analysis.

#### 3. **Instrument Performance Check**

The instrument performance check using decafluorotriphenylphosphine (DFTPP) met the ion abundance criteria specified in method 8270C.

#### 4. **Calibration Results**

The initial calibration had acceptable results. The %RSD for all detected compounds were less than 30 and the average relative response factors were all greater than 0.05.

The %D in the CCV for all target compounds were within the QC limit of less than or equal to 20 percent for target compounds except for benzo(b)fluoranthene. The quantitation limit for benzo(b)fluoranthene was flagged "UJ" as estimated for this discrepancy.

#### 5. **Blanks**

A method blank was analyzed with the samples and was free of target compound contamination.

**6. Surrogates**

Surrogate recoveries were within the laboratory-established QC limits.

**7. MS and MSD Results**

FEL ran an MS and MSD using a sample from another site as the spike. No qualifications were applied for this omission.

**8. LCS Results**

The LCS recoveries were within the laboratory-established QC limits.

**9. Internal Standard Results**

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than  $\pm 30$  seconds from the retention time of the associated continuing calibration standard.

**10. Overall Assessment**

The PAH data are acceptable for use as qualified based on the information received.



Data Validation Report  
Pitney Court  
First Environmental Laboratories, Inc.  
Laboratory Project #: 7-3876

**ATTACHMENT**

**FIRST ENVIRONMENTAL LABORATORIES, INC.  
RESULTS SUMMARY**



**First  
Environmental  
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

**Analytical Report**

**Client:** DYNAMAC CORPORATION

**Date Collected:** 08/30/07

**Project ID:** 05-PC-08/30/07-0007

**Time Collected:** 8:00

**Sample ID:** PC-S-01-083007

**Date Received:** 08/30/07

**Sample No:** 7-3876-001

**Date Reported:** 08/31/07

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b> Method: 160.3				
Analysis Date: 08/30/07				
Total Solids	76.31		%	
<b>BTEX Organic Compounds</b> Method: 5035A/8260B				
Analysis Date: 08/30/07				
Benzene	< 2.0	2.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
<b>Polynuclear Aromatic Hydrocarbons</b> Method: 8270C				
Analysis Date: 08/31/07				
		<b>Preparation Method 3540C</b>		
		Preparation Date: 08/31/07		
Acenaphthene	< 50	50	ug/kg	
Acenaphthylene	< 50	50	ug/kg	
Anthracene	< 50	50	ug/kg	
Benzo(a)anthracene	< 8.7	8.7	ug/kg	
Benzo(a)pyrene	< 15	15	ug/kg	
Benzo(b)fluoranthene	< 11 <i>UJ</i>	11	ug/kg	
Benzo(k)fluoranthene	< 11	11	ug/kg	
Benzo(ghi)perylene	< 50	50	ug/kg	
Carbazole	< 330	330	ug/kg	
Chrysene	< 50	50	ug/kg	
Dibenzo(a,h)anthracene	< 20	20	ug/kg	
Fluoranthene	< 50	50	ug/kg	
Fluorene	< 50	50	ug/kg	
Indeno(1,2,3-cd)pyrene	< 29	29	ug/kg	
2-Methylnaphthalene	< 50	50	ug/kg	
Naphthalene	< 25	25	ug/kg	
Phenanthrene	< 50	50	ug/kg	
Pyrene	< 50	50	ug/kg	

*2J*  
*10/24/07*

**PITNEY COURT  
CHICAGO, ILLINOIS  
DATA VALIDATION REPORT**

**Date:** October 24, 2007

**Laboratory:** First Environmental Laboratories, Inc. (FEL), Naperville, Illinois

**Laboratory Project #:** 7-3877

**Data Validation Performed By:** Lisa Graczyk, Dynamac Corporation (Dynamac), subcontractor to Weston Solutions, Inc. (Weston)

**Weston Analytical Work Order #/TDD #:** 20405.016.003.0208.00/S05-0003-0706-003

This data validation report has been prepared by Dynamac, a Weston subcontractor, under the START III Region V contract. This report documents the data validation for one soil sample collected for the Pitney Court Site that were analyzed for the following parameters and U.S. Environmental Protection Agency (U.S. EPA) methods:

- Synthetic Precipitation Leaching Procedure (SPLP) Metals (chromium, lead, and selenium) by SW-846 methods 1312 and 6010B

A level III data package was requested from FEL. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidelines for Inorganic Data Review" dated October 2004. The attachment contains the results summary sheets.

**SPLP METALS BY SW-846 METHODS 1312 AND 6010B**

**1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Analyzed</b>
PC-S-01-083007	7-3877-001	Soil	08/30/07	09/06/2007

**2. Holding Times**

The sample was analyzed within the required holding time limit of 180 days from sample collection to analysis.

**3. Calibrations**

The initial calibration verification (ICV) and continuing calibration verification (CCV) standards were within the QC limits of 90 to 110 percent recovery (%R).

**4. Blank Results**

A method blanks was analyzed with the sample and was free of target analyte contamination above the reporting limits.

**5. Interference Check Sample (ICS) Results**

The ICS solutions A and AB were analyzed. The percent recoveries in the ICS solution AB were within the QC limits of 80 to 120 percent recovery.

**6. Laboratory Control Sample (LCS) Results**

The LCS recoveries were within the laboratory-established QC limits for target analytes.

**7. Overall Assessment**

The metals data are acceptable for use based on the information received.

Data Validation Report  
Pitney Court  
First Environmental Laboratories, Inc.  
Laboratory Project #: 7-3877

**ATTACHMENT**

**FIRST ENVIRONMENTAL LABORATORIES, INC.  
RESULTS SUMMARY**



**First  
Environmental  
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** 05-PC-08/30/07-0007  
**Sample ID:** PC-S-01-083007  
**Sample No:** 7-3877-001

**Date Collected:** 08/30/07  
**Time Collected:** 8:00  
**Date Received:** 08/30/07  
**Date Reported:** 09/07/07

Analyte	Result	R.L.	Units	Flags
<b>SPLP Metals Method 1312</b>		<b>Method: 6010B</b>		
Analysis Date: 09/06/07		<b>Preparation Method 3010A</b>		
		Preparation Date: 09/05/07		
Lead	< 0.002	0.002	mg/L	
Manganese	< 0.1	0.1	mg/L	
Selenium	< 0.002	0.002	mg/L	

**PITNEY COURT  
CHICAGO, ILLINOIS  
DATA VALIDATION REPORT**

**Date:** October 24, 2007

**Laboratory:** First Environmental Laboratories, Inc. (FEL), Naperville, Illinois

**Laboratory Project #:** 7-4097

**Data Validation Performed By:** Lisa Graczyk, Dynamac Corporation (Dynamac), subcontractor to Weston Solutions, Inc. (Weston)

**Weston Analytical Work Order #/TDD #:** 20405.016.003.0208.00/S05-0003-0706-003

This data validation report has been prepared by Dynamac, a Weston subcontractor, under the START III Region V contract. This report documents the data validation for one soil sample collected for the Pitney Court Site that was analyzed for the following parameters and U.S. Environmental Protection Agency (U.S. EPA) methods:

- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) by SW-846 method 8260B
- Polynuclear Aromatic Hydrocarbons (PAH) by SW-846 method 8270C

A level III data package was requested from FEL. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Organic Data Review" dated October 1999. The attachment contains the results summary sheets.

**BTEX BY SW-846 METHOD 8260B**

**1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Analyzed</b>
PC-S-01-091407	7-4097-001	Soil	09/14/2007	09/14/2007

**2. Holding Times**

The sample was analyzed within the required holding time limit of 14 days from sample collection to analysis.

3. **Instrument Performance Check**

The instrument performance check using bromofluorobenzene (BFB) was performed and met the ion abundance criteria specified in method 8260B.

4. **Calibration Results**

For the initial calibration, the percent relative standard deviations (%RSD) for all compounds were less than 30.

The percent differences in the continuing calibration standard for all target compounds were within the control limit of less than or equal to 25 percent.

5. **Blanks**

A method blank was analyzed as required and was free of target compound contamination above the reporting limit.

6. **Surrogates**

The surrogate spike recoveries were within the laboratory-established quality control (QC) limits.

7. **Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results**

FEL ran an MS and MSD using a sample from another site as the spike. No qualifications are applied for this omission.

8. **Laboratory Control Sample (LCS) Results**

All LCS recoveries and LCS duplicate recoveries were within the laboratory-established QC limits.

9. **Internal Standard Results**

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than  $\pm 30$  seconds from the retention time of the associated continuing calibration standard.



## 10. **Overall Assessment**

The BTEX data are acceptable for use based on the information received.

### **PAHs BY SW-846 METHOD 8270C**

#### 1. **Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>
PC-S-01-091407	7-4097-001	Soil	09/14/2007	09/16/2007	09/17/2007

#### 2. **Holding Times**

The sample was analyzed within the required holding time limit of 14 days from sample collection to extraction and 40 days from extraction to analysis.

#### 3. **Instrument Performance Check**

The instrument performance check using decafluorotriphenylphosphine (DFTPP) met the ion abundance criteria specified in method 8270C.

#### 4. **Calibration Results**

The initial calibration had acceptable results. The %RSD for all detected compounds were less than 30 and the average relative response factors were all greater than 0.05.

The %D in the CCV were within the QC limit of less than or equal to 20 percent for target compounds.

#### 5. **Blanks**

A method blank was analyzed with the samples and was free of target compound contamination.

**6. Surrogates**

Surrogate recoveries were within the laboratory-established QC limits.

**7. MS and MSD Results**

FEL ran an MS and MSD using a sample from another site as the spike. No qualifications were applied for this omission.

**8. LCS Results**

The LCS recoveries were within the laboratory-established QC limits.

**9. Internal Standard Results**

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than  $\pm 30$  seconds from the retention time of the associated continuing calibration standard.

**10. Overall Assessment**

The PAH data are acceptable for use based on the information received.

Data Validation Report  
Pitney Court  
First Environmental Laboratories, Inc.  
Laboratory Project #: 7-4097

**ATTACHMENT**

**FIRST ENVIRONMENTAL LABORATORIES, INC.  
RESULTS SUMMARY**



**First  
Environmental  
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

**Analytical Report**

**Client:** DYNAMAC CORPORATION

**Date Collected:** 09/14/07

**Project ID:** 05-PC-09/14/07-0008

**Time Collected:** 7:45

**Sample ID:** PC-S-01-091407

**Date Received:** 09/14/07

**Sample No:** 7-4097-001

**Date Reported:** 09/17/07

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b> <b>Method: 160.3</b>				
Analysis Date: 09/14/07				
Total Solids	75.27		%	
<b>BTEX Organic Compounds</b> <b>Method: 5035A/8260B</b>				
Analysis Date: 09/14/07				
Benzene	< 2.0	2.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
<b>Polynuclear Aromatic Hydrocarbons</b> <b>Method: 8270C</b> <b>Preparation Method 3540C</b>				
Analysis Date: 09/17/07				
			Preparation Date: 09/16/07	
Acenaphthene	< 50	50	ug/kg	
Acenaphthylene	< 50	50	ug/kg	
Anthracene	66	50	ug/kg	
Benzo(a)anthracene	53.8	8.7	ug/kg	
Benzo(a)pyrene	41	15	ug/kg	
Benzo(b)fluoranthene	30	11	ug/kg	
Benzo(k)fluoranthene	27	11	ug/kg	
Benzo(ghi)perylene	< 50	50	ug/kg	
Carbazole	< 330	330	ug/kg	
Chrysene	57	50	ug/kg	
Dibenzo(a,h)anthracene	< 20	20	ug/kg	
Fluoranthene	113	50	ug/kg	
Fluorene	69	50	ug/kg	
Indeno(1,2,3-cd)pyrene	< 29	29	ug/kg	
2-Methylnaphthalene	70	50	ug/kg	
Naphthalene	122	25	ug/kg	
Phenanthrene	247	50	ug/kg	
Pyrene	117	50	ug/kg	

**PITNEY COURT  
CHICAGO, ILLINOIS  
DATA VALIDATION REPORT**

**Date:** November 19, 2007

**Laboratory:** First Environmental Laboratories, Inc. (FEL), Naperville, Illinois

**Laboratory Project #:** 7-4600

**Data Validation Performed By:** Lisa Graczyk, Dynamac Corporation (Dynamac), subcontractor to Weston Solutions, Inc. (Weston)

**Weston Analytical Work Order #/TDD #:** 20405.016.003.0208.00/S05-0003-0706-003

This data validation report has been prepared by Dynamac, under the START III Region V contract. This report documents the data validation for one soil sample collected for the Pitney Court Site that was analyzed for the following parameters and U.S. Environmental Protection Agency (U.S. EPA) methods:

- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) by SW-846 method 8260B
- Polynuclear Aromatic Hydrocarbons (PAH) by SW-846 method 8270C

A level III data package was requested from FEL. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Organic Data Review" dated October 1999. The attachment contains the results summary sheets.

**BTEX BY SW-846 METHOD 8260B**

**1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Analyzed</b>
PC-S-01-101607	7-4600-001	Soil	10/16/2007	10/17/2007

**2. Holding Times**

The sample was analyzed within the required holding time limit of 14 days from sample collection to analysis.

3. **Instrument Performance Check**

The instrument performance check using bromofluorobenzene (BFB) was performed and met the ion abundance criteria specified in method 8260B.

4. **Calibration Results**

For the initial calibration, the percent relative standard deviations (%RSD) for all compounds were less than 30.

The percent differences in the continuing calibration standard for all target compounds were within the control limit of less than or equal to 25 percent.

5. **Blanks**

A method blank was analyzed as required and was free of target compound contamination above the reporting limit.

6. **Surrogates**

The surrogate spike recoveries were within the laboratory-established quality control (QC) limits.

7. **Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results**

FEL ran an MS and MSD using a sample from another site as the spike. No qualifications are applied for this omission.

8. **Laboratory Control Sample (LCS) Results**

All LCS and LCS duplicate recoveries were within the laboratory-established QC limits.

9. **Internal Standard Results**

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than  $\pm 30$  seconds from the retention time of the associated continuing calibration standard.

## 10. **Overall Assessment**

The BTEX data are acceptable for use based on the information received.

### **PAHs BY SW-846 METHOD 8270C**

#### 1. **Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>
PC-S-01-101607	7-4600-001	Soil	10/16/2007	10/18/2007	10/18/2007

#### 2. **Holding Times**

The sample was analyzed within the required holding time limit of 14 days from sample collection to extraction and 40 days from extraction to analysis.

#### 3. **Instrument Performance Check**

The instrument performance check using decafluorotriphenylphosphine (DFTPP) met the ion abundance criteria specified in method 8270C.

#### 4. **Calibration Results**

The initial calibration had acceptable results. The %RSD for all detected compounds were less than 30 and the average relative response factors were all greater than 0.05.

The %D in the CCV were within the QC limit of less than or equal to 20 percent for target compounds.

#### 5. **Blanks**

A method blank was analyzed with the sample and was free of target compound contamination.

**6. Surrogates**

Surrogate recoveries were within the laboratory-established QC limits.

**7. MS and MSD Results**

FEL ran an MS and MSD using a sample from another site as the spike. No qualifications were applied for this omission.

**8. LCS Results**

The LCS recoveries were within the laboratory-established QC limits.

**9. Internal Standard Results**

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than  $\pm 30$  seconds from the retention time of the associated continuing calibration standard.

**10. Overall Assessment**

The PAH data are acceptable for use based on the information received.



Data Validation Report  
Pitney Court  
First Environmental Laboratories, Inc.  
Laboratory Project #: 7-4600

**ATTACHMENT**

**FIRST ENVIRONMENTAL LABORATORIES, INC.  
RESULTS SUMMARY**



**First  
Environmental  
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

**Analytical Report**

**Client:** DYNAMAC CORPORATION

**Date Collected:** 10/16/07

**Project ID:** 05-PC-10/16/07-0009

**Time Collected:** 10:00

**Sample ID:** PC-S-01-101607

**Date Received:** 10/17/07

**Sample No:** 7-4600-001

**Date Reported:** 10/18/07

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b> <b>Method: 160.3</b>				
Analysis Date: 10/17/07				
Total Solids	80.21		%	
<b>BTEX Organic Compounds</b> <b>Method: 5035A/8260B</b>				
Analysis Date: 10/17/07				
Benzene	< 2.0	2.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
<b>Polynuclear Aromatic Hydrocarbons</b> <b>Method: 8270C</b> <b>Preparation Method 3540C</b>				
Analysis Date: 10/18/07				
			Preparation Date: 10/18/07	
Acenaphthene	< 50	50	ug/kg	
Acenaphthylene	< 50	50	ug/kg	
Anthracene	< 50	50	ug/kg	
Benzo(a)anthracene	< 8.7	8.7	ug/kg	
Benzo(a)pyrene	< 15	15	ug/kg	
Benzo(b)fluoranthene	< 11	11	ug/kg	
Benzo(k)fluoranthene	< 11	11	ug/kg	
Benzo(ghi)perylene	< 50	50	ug/kg	
Carbazole	< 330	330	ug/kg	
Chrysene	< 50	50	ug/kg	
Dibenzo(a,h)anthracene	< 20	20	ug/kg	
Fluoranthene	< 50	50	ug/kg	
Fluorene	< 50	50	ug/kg	
Indeno(1,2,3-cd)pyrene	< 29	29	ug/kg	
2-Methylnaphthalene	< 50	50	ug/kg	
Naphthalene	< 25	25	ug/kg	
Phenanthrene	< 50	50	ug/kg	
Pyrene	< 50	50	ug/kg	

**PITNEY COURT  
CHICAGO, ILLINOIS  
DATA VALIDATION REPORT**

**Date:** November 19, 2007

**Laboratory:** First Environmental Laboratories, Inc. (FEL), Naperville, Illinois

**Laboratory Project #:** 7-4698

**Data Validation Performed By:** Lisa Graczyk, Dynamac Corporation (Dynamac), subcontractor to Weston Solutions, Inc. (Weston)

**Weston Analytical Work Order #/TDD #:** 20405.016.003.0208.00/S05-0003-0706-003

This data validation report has been prepared by Dynamac, under the START III Region V contract. This report documents the data validation for soil samples collected for the Pitney Court Site that were analyzed for the following parameters and U.S. Environmental Protection Agency (U.S. EPA) methods:

- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) by SW-846 method 8260B
- Polynuclear Aromatic Hydrocarbons (PAH) by SW-846 method 8270C

A level III data package was requested from FEL. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Organic Data Review" dated October 1999. The attachment contains the results summary sheets.

**BTEX BY SW-846 METHOD 8260B**

**1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Analyzed</b>
PC-S-01-102207	7-4698-001	Soil	10/22/2007	10/23/2007
PC-S-02-102207	7-4698-002	Soil	10/22/2007	10/23/2007

**2. Holding Times**

The samples were analyzed within the required holding time limit of 14 days from sample collection to analysis.

3. **Instrument Performance Check**

The instrument performance check using bromofluorobenzene (BFB) was performed and met the ion abundance criteria specified in method 8260B.

4. **Calibration Results**

For the initial calibration, the percent relative standard deviations (%RSD) for all compounds were less than 30.

The percent differences in the continuing calibration standard for all target compounds were within the control limit of less than or equal to 25 percent.

5. **Blanks**

A method blank was analyzed as required and was free of target compound contamination above the reporting limit.

6. **Surrogates**

The surrogate spike recoveries were within the laboratory-established quality control (QC) limits.

7. **Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results**

FEL ran an MS and MSD using a sample from another site as the spike. No qualifications are applied for this omission.

8. **Laboratory Control Sample (LCS) Results**

All LCS and LCS duplicate recoveries were within the laboratory-established QC limits.

9. **Internal Standard Results**

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than  $\pm 30$  seconds from the retention time of the associated continuing calibration standard.

## 10. Overall Assessment

The BTEX data are acceptable for use based on the information received.

### PAHs BY SW-846 METHOD 8270C

#### 1. Samples

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>
PC-S-01-102207	7-4698-001	Soil	10/22/2007	10/23/2007	10/24/2007
PC-S-02-102207	7-4698-002	Soil	10/22/2007	10/23/2007	10/24/2007

#### 2. Holding Times

The samples were analyzed within the required holding time limit of 14 days from sample collection to extraction and 40 days from extraction to analysis.

#### 3. Instrument Performance Check

The instrument performance check using decafluorotriphenylphosphine (DFTPP) met the ion abundance criteria specified in method 8270C.

#### 4. Calibration Results

The initial calibration had acceptable results. The %RSD for all detected compounds were less than 30 and the average relative response factors were all greater than 0.05.

The %D in the CCV were within the QC limit of less than or equal to 20 percent for target compounds except for benzo(b)fluoranthene. The results for benzo(b)fluoranthene were flagged "J" as estimated for this discrepancy.

#### 5. Blanks

A method blank was analyzed with the sample and was free of target compound contamination.

**6. Surrogates**

Surrogate recoveries were within the laboratory-established QC limits.

**7. MS and MSD Results**

FEL ran an MS and MSD using a sample from another site as the spike. No qualifications were applied for this omission.

**8. LCS Results**

The LCS recoveries were within the laboratory-established QC limits.

**9. Internal Standard Results**

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than  $\pm 30$  seconds from the retention time of the associated continuing calibration standard.

**10. Overall Assessment**

The PAH data are acceptable for use as qualified based on the information received.

Data Validation Report  
Pitney Court  
First Environmental Laboratories, Inc.  
Laboratory Project #: 7-4698

**ATTACHMENT**

**FIRST ENVIRONMENTAL LABORATORIES, INC.  
RESULTS SUMMARY**



**First  
Environmental  
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

**Analytical Report**

**Client:** DYNAMAC CORPORATION

**Date Collected:** 10/22/07

**Project ID:** 05-PC

**Time Collected:** 11:00

**Sample ID:** PC-S-01-102207

**Date Received:** 10/23/07

**Sample No:** 7-4698-001

**Date Reported:** 10/24/07

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b> <span style="float: right;"><b>Method: 160.3</b></span>				
Analysis Date: 10/23/07				
Total Solids	78.52		%	
<b>BTEX Organic Compounds</b> <span style="float: right;"><b>Method: 5035A/8260B</b></span>				
Analysis Date: 10/23/07				
Benzene	2.4	2.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
<b>Polynuclear Aromatic Hydrocarbons</b> <span style="float: right;"><b>Method: 8270C</b></span>				
Analysis Date: 10/24/07				
		<b>Preparation Method 3540C</b>		
		Preparation Date: 10/23/07		
Acenaphthene	192	50	ug/kg	
Acenaphthylene	132	50	ug/kg	
Anthracene	457	50	ug/kg	
Benzo(a)anthracene	943	8.7	ug/kg	
Benzo(a)pyrene	897	15	ug/kg	
Benzo(b)fluoranthene	893	11	ug/kg	
Benzo(k)fluoranthene	641	11	ug/kg	
Benzo(ghi)perylene	445	50	ug/kg	
Carbazole	< 330	330	ug/kg	
Chrysene	1,080	50	ug/kg	
Dibenzo(a,h)anthracene	135	20	ug/kg	
Fluoranthene	2,380	50	ug/kg	
Fluorene	319	50	ug/kg	
Indeno(1,2,3-cd)pyrene	562	29	ug/kg	
2-Methylnaphthalene	114	50	ug/kg	
Naphthalene	266	25	ug/kg	
Phenanthrene	2,070	50	ug/kg	
Pyrene	1,920	50	ug/kg	

28  
11/19/07





**First  
Environmental  
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

**Analytical Report**

**Client:** DYNAMAC CORPORATION

**Date Collected:** 10/22/07

**Project ID:** 05-PC

**Time Collected:** 11:05

**Sample ID:** PC-S-02-102207

**Date Received:** 10/23/07

**Sample No:** 7-4698-002

**Date Reported:** 10/24/07

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b> <b>Method: 160.3</b>				
Analysis Date: 10/23/07				
Total Solids	82.36		%	
<b>BTEX Organic Compounds</b> <b>Method: 5035A/8260B</b>				
Analysis Date: 10/23/07				
Benzene	2.5	2.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
<b>Polynuclear Aromatic Hydrocarbons</b> <b>Method: 8270C</b> <b>Preparation Method 3540C</b>				
Analysis Date: 10/24/07				
		Preparation Date: 10/23/07		
Acenaphthene	< 50	50	ug/kg	
Acenaphthylene	< 50	50	ug/kg	
Anthracene	62	50	ug/kg	
Benzo(a)anthracene	145	8.7	ug/kg	
Benzo(a)pyrene	141	15	ug/kg	
Benzo(b)fluoranthene	154 J	11	ug/kg	
Benzo(k)fluoranthene	115	11	ug/kg	
Benzo(ghi)perylene	70	50	ug/kg	
Carbazole	< 330	330	ug/kg	
Chrysene	168	50	ug/kg	
Dibenzo(a,h)anthracene	22	20	ug/kg	
Fluoranthene	404	50	ug/kg	
Fluorene	< 50	50	ug/kg	
Indeno(1,2,3-cd)pyrene	92	29	ug/kg	
2-Methylnaphthalene	< 50	50	ug/kg	
Naphthalene	< 25	25	ug/kg	
Phenanthrene	256	50	ug/kg	
Pyrene	305	50	ug/kg	

24  
11/19/07

**PITNEY COURT  
CHICAGO, ILLINOIS  
DATA VALIDATION REPORT**

**Date:** December 12, 2007

**Laboratory:** First Environmental Laboratories, Inc. (FEL), Naperville, Illinois

**Laboratory Project #:** 7-4911

**Data Validation Performed By:** Lisa Graczyk, Dynamac Corporation (Dynamac), subcontractor to Weston Solutions, Inc. (Weston)

**Weston Analytical Work Order #/TDD #:** 20405.016.003.0208.00/S05-0003-0706-003

This data validation report has been prepared by Dynamac, under the START III Region V contract. This report documents the data validation for soil samples collected for the Pitney Court Site that were analyzed for the following parameters and U.S. Environmental Protection Agency (U.S. EPA) methods:

- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) by SW-846 method 8260B
- Polynuclear Aromatic Hydrocarbons (PAH) by SW-846 method 8270C

A level III data package was requested from FEL. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Organic Data Review" dated October 1999. The attachment contains the results summary sheets.

**BTEX BY SW-846 METHOD 8260B**

**1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Analyzed</b>
PC-S-01-103107	7-4911-001	Soil	10/31/2007	11/09/2007
PC-S-02-103107	7-4911-002	Soil	10/31/2007	11/09/2007

**2. Holding Times**

The samples were analyzed within the required holding time limit of 14 days from sample collection to analysis.

3. **Instrument Performance Check**

The instrument performance check using bromofluorobenzene (BFB) was performed and met the ion abundance criteria specified in method 8260B.

4. **Calibration Results**

The percent differences in the continuing calibration standard for all target compounds were within the control limit of less than or equal to 25 percent.

5. **Blanks**

A method blank was analyzed as required and was free of target compound contamination above the reporting limit.

6. **Surrogates**

The surrogate spike recoveries were within the laboratory-established quality control (QC) limits.

7. **Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results**

The MS and MSD recoveries were acceptable. The relative percent differences between the MS and MSD results were outside the QC limits. The detected result (toluene in sample PC-S-02-103107) was flagged "J" as estimated for this discrepancy.

8. **Laboratory Control Sample (LCS) Results**

All LCS and LCS duplicate recoveries were within the laboratory-established QC limits.

9. **Internal Standard Results**

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than  $\pm 30$  seconds from the retention time of the associated continuing calibration standard.

## 10. **Overall Assessment**

The BTEX data are acceptable for use as qualified based on the information received.

### **PAHs BY SW-846 METHOD 8270C**

#### 1. **Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>
PC-S-01-103107	7-4911-001	Soil	10/31/2007	11/05/2007	11/07/2007
PC-S-02-103107	7-4911-002	Soil	10/31/2007	11/05/2007	11/07/2007

#### 2. **Holding Times**

The samples were analyzed within the required holding time limit of 14 days from sample collection to extraction and 40 days from extraction to analysis.

#### 3. **Instrument Performance Check**

The instrument performance check using decafluorotriphenylphosphine (DFTPP) met the ion abundance criteria specified in method 8270C.

#### 4. **Calibration Results**

The initial calibration had acceptable results. The %RSD for all detected compounds were less than 30 and the average relative response factors were all greater than 0.05.

The %D in the CCV were within the QC limit of less than or equal to 20 percent for target compounds.

#### 5. **Blanks**

A method blank was analyzed with the sample and was free of target compound contamination.

**6. Surrogates**

Surrogate recoveries were within the laboratory-established QC limits except for those that could not be recovered due to dilutions. There is no qualification required for this discrepancy.

**7. MS and MSD Results**

FEL ran an MS and MSD using a sample from another site as the spike. No qualifications were applied for this omission.

**8. LCS Results**

The LCS recoveries were within the laboratory-established QC limits.

**9. Internal Standard Results**

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than  $\pm 30$  seconds from the retention time of the associated continuing calibration standard.

**10. Overall Assessment**

The PAH data are acceptable for use based on the information received.

Data Validation Report  
Pitney Court  
First Environmental Laboratories, Inc.  
Laboratory Project #: 7-4911

**ATTACHMENT**

**FIRST ENVIRONMENTAL LABORATORIES, INC.  
RESULTS SUMMARY**



**First  
Environmental  
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

**Analytical Report**

**Client:** DYNAMAC CORPORATION

**Date Collected:** 10/31/07

**Project ID:** 05-PC-10/31/07-0011

**Time Collected:** 13:50

**Sample ID:** PC-S-01-103107

**Date Received:** 11/02/07

**Sample No:** 7-4911-001

**Date Reported:** 11/09/07

Results are reported on a dry weight basis.

<b>Analyte</b>	<b>Result</b>	<b>R.L.</b>	<b>Units</b>	<b>Flags</b>
<b>Solids, Total</b>				
<b>Method: 160.3</b>				
Analysis Date: 11/02/07				
Total Solids	81.45		%	
<b>BTEX Organic Compounds</b>				
<b>Method: 5035A/8260B</b>				
Analysis Date: 11/09/07				
Benzene	< 5.0	5.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Carbon disulfide	46.9	5.0	ug/kg	
<b>Polynuclear Aromatic Hydrocarbons</b>				
<b>Method: 8270C</b>				
Analysis Date: 11/07/07				
		<b>Preparation Method 3540C</b>		
		Preparation Date: 11/05/07		
Acenaphthene	11,100	50	ug/kg	
Acenaphthylene	335	50	ug/kg	
Anthracene	31,400	50	ug/kg	
Benzo(a)anthracene	58,800	8.7	ug/kg	
Benzo(a)pyrene	58,800	15	ug/kg	
Benzo(b)fluoranthene	64,400	11	ug/kg	
Benzo(k)fluoranthene	35,600	11	ug/kg	
Benzo(ghi)perylene	38,900	50	ug/kg	
Carbazole	6,940	330	ug/kg	
Chrysene	68,100	50	ug/kg	
Dibenzo(a,h)anthracene	11,000	20	ug/kg	
Fluoranthene	173,000	50	ug/kg	
Fluorene	14,300	50	ug/kg	
Indeno(1,2,3-cd)pyrene	43,800	29	ug/kg	
2-Methylnaphthalene	665	50	ug/kg	
Naphthalene	682	25	ug/kg	
Phenanthrene	110,000	50	ug/kg	
Pyrene	145,000	50	ug/kg	



**First  
Environmental  
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

**Analytical Report**

**Client:** DYNAMAC CORPORATION

**Date Collected:** 10/31/07

**Project ID:** 05-PC-10/31/07-0011

**Time Collected:** 13:55

**Sample ID:** PC-S-02-103107

**Date Received:** 11/02/07

**Sample No:** 7-4911-002

**Date Reported:** 11/09/07

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b> Method: 160.3				
Analysis Date: 11/02/07				
Total Solids	82.37		%	
<b>BTEX Organic Compounds</b> Method: 5035A/8260B				
Analysis Date: 11/09/07				
Benzene	< 5.0	5.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
Toluene	5.1 J	5.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
Carbon disulfide	< 5.0	5.0	ug/kg	
<b>Polynuclear Aromatic Hydrocarbons</b> Method: 8270C				
Analysis Date: 11/07/07				
		<b>Preparation Method 3540C</b>		
		Preparation Date: 11/05/07		
Acenaphthene	< 50	50	ug/kg	
Acenaphthylene	< 50	50	ug/kg	
Anthracene	63	50	ug/kg	
Benzo(a)anthracene	262	8.7	ug/kg	
Benzo(a)pyrene	252	15	ug/kg	
Benzo(b)fluoranthene	254	11	ug/kg	
Benzo(k)fluoranthene	217	11	ug/kg	
Benzo(ghi)perylene	213	50	ug/kg	
Carbazole	< 330	330	ug/kg	
Chrysene	305	50	ug/kg	
Dibenzo(a,h)anthracene	50	20	ug/kg	
Fluoranthene	763	50	ug/kg	
Fluorene	< 50	50	ug/kg	
Indeno(1,2,3-cd)pyrene	213	29	ug/kg	
2-Methylnaphthalene	< 50	50	ug/kg	
Naphthalene	< 25	25	ug/kg	
Phenanthrene	365	50	ug/kg	
Pyrene	699	50	ug/kg	

LS  
12/12/07



**PITNEY COURT  
CHICAGO, ILLINOIS  
DATA VALIDATION REPORT**

**Date:** February 4, 2008

**Laboratory:** First Environmental Laboratories, Inc. (FEL), Naperville, Illinois

**Laboratory Project #:** 7-5388

**Data Validation Performed By:** Lisa Graczyk, Dynamac Corporation (Dynamac), subcontractor to Weston Solutions, Inc. (Weston)

**Weston Analytical Work Order #/TDD #:** 20405.016.003.0208.00/S05-0003-0706-003

This data validation report has been prepared by Dynamac, under the START III Region V contract. This report documents the data validation for one soil sample collected for the Pitney Court Site that were analyzed for the following parameters and U.S. Environmental Protection Agency (U.S. EPA) methods:

- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) by SW-846 method 8260B
- Polynuclear Aromatic Hydrocarbons (PAH) by SW-846 method 8270C

A level III data package was requested from FEL. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Organic Data Review" dated October 1999. The attachment contains the results summary sheets.

**BTEX BY SW-846 METHOD 8260B**

**1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Analyzed</b>
PC-S-01-112907	7-5388-003	Soil	11/29/2007	12/07/2007

**2. Holding Times**

The sample was analyzed within the required holding time limit of 14 days from sample collection to analysis.

**3. Instrument Performance Check**

The instrument performance check using bromofluorobenzene (BFB) was performed and met the ion abundance criteria specified in method 8260B.

**4. Calibration Results**

For the initial calibration, the percent relative standard deviations (%RSD) for all compounds were less than 30.

The percent differences in the continuing calibration standard for all target compounds were within the control limit of less than or equal to 25 percent.

**5. Blanks**

A method blank was analyzed as required and was free of target compound contamination above the reporting limit.

**6. Surrogates**

The surrogate spike recoveries were within the laboratory-established quality control (QC) limits.

**7. Laboratory Control Sample (LCS) Results**

All LCS and LCS duplicate recoveries were within the laboratory-established QC limits.

**8. Internal Standard Results**

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than  $\pm 30$  seconds from the retention time of the associated continuing calibration standard.

## 9. **Overall Assessment**

The BTEX data are acceptable for use based on the information received.

### **PAHs BY SW-846 METHOD 8270C**

## 1. **Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>
PC-S-01-112907	7-5388-003	Soil	11/29/2007	12/09/2007	12/10/2007

## 2. **Holding Times**

The sample was analyzed within the required holding time limit of 14 days from sample collection to extraction and 40 days from extraction to analysis.

## 3. **Instrument Performance Check**

The instrument performance check using decafluorotriphenylphosphine (DFTPP) met the ion abundance criteria specified in method 8270C.

## 4. **Calibration Results**

The initial calibration had acceptable results. The %RSD for all detected compounds were less than 30 and the average relative response factors were all greater than 0.05.

The %D in the CCV were within the QC limit of less than or equal to 20 percent for target compounds except for benzo(b)fluoranthene which had a difference of 22.5 percent. No qualification was applied for this minor discrepancy.

## 5. **Blanks**

A method blank was analyzed with the sample and was free of target compound contamination.

**6. Surrogates**

Surrogate recoveries were within the laboratory-established QC limits except when the surrogate could not be recovered due to sample dilution. No qualification is required for this discrepancy.

**7. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results**

FEL ran an MS and MSD using a sample from the Pitney Court site as the spike. Several PAH compounds were detected above the QC limit. Detected results for those compounds detected high in the MS and MSD were flagged "J" as estimated for this discrepancy.

**8. LCS Results**

The LCS recoveries were within the laboratory-established QC limits.

**9. Internal Standard Results**

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than  $\pm 30$  seconds from the retention time of the associated continuing calibration standard.

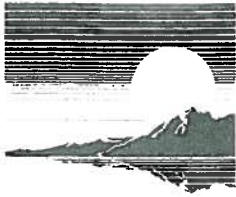
**10. Overall Assessment**

The PAH data are acceptable for use as qualified based on the information received.

Data Validation Report  
Pitney Court  
First Environmental Laboratories, Inc.  
Laboratory Project #: 7-5388

**ATTACHMENT**

**FIRST ENVIRONMENTAL LABORATORIES, INC.  
RESULTS SUMMARY**



**First  
Environmental  
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

**Analytical Report**

**Client:** DYNAMAC CORPORATION  
**Project ID:** # 05-PC  
**Sample ID:** PC-S-01-112907 Grab/Composite  
**Sample No:** 7-5388-003

**Date Collected:** 11/29/07  
**Time Collected:** 11:30  
**Date Received:** 11/30/07  
**Date Reported:** 01/08/08

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b> Method: 160.3				
Analysis Date: 12/03/07				
Total Solids	78.73		%	
<b>BTEX Organic Compounds</b> Method: 5035A/8260B				
Analysis Date: 12/07/07				
Benzene	< 5.0	5.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
<b>Polynuclear Aromatic Hydrocarbons</b> Method: 8270C				
Analysis Date: 12/10/07				
		<b>Preparation Method 3540C</b>		
		Preparation Date: 12/09/07		
Acenaphthene	< 50	50	ug/kg	
Acenaphthylene	81 J	50	ug/kg	
Anthracene	266 J	50	ug/kg	
Benzo(a)anthracene	704	8.7	ug/kg	
Benzo(a)pyrene	682 J	15	ug/kg	
Benzo(b)fluoranthene	615	11	ug/kg	
Benzo(k)fluoranthene	478	11	ug/kg	
Benzo(ghi)perylene	372 J	50	ug/kg	
Carbazole	< 330	330	ug/kg	
Chrysene	677	50	ug/kg	
Dibenzo(a,h)anthracene	122	20	ug/kg	
Fluoranthene	1,420 J	50	ug/kg	
Fluorene	76 J	50	ug/kg	
Indeno(1,2,3-cd)pyrene	448	29	ug/kg	
2-Methylnaphthalene	77	50	ug/kg	
Naphthalene	83 J	25	ug/kg	
Phenanthrene	1,200 J	50	ug/kg	
Pyrene	1,240 J	50	ug/kg	

28  
2/4/08

**PITNEY COURT  
CHICAGO, ILLINOIS  
DATA VALIDATION REPORT**

**Date:** January 22, 2008

**Laboratory:** First Environmental Laboratories, Inc. (FEL), Naperville, Illinois

**Laboratory Project #:** 7-5536

**Data Validation Performed By:** Lisa Graczyk, Dynamac Corporation (Dynamac), subcontractor to Weston Solutions, Inc. (Weston)

**Weston Analytical Work Order #/TDD #:** 20405.016.003.0208.00/S05-0003-0706-003

This data validation report has been prepared by Dynamac, under the START III Region V contract. This report documents the data validation for one soil sample collected for the Pitney Court Site that were analyzed for the following parameters and U.S. Environmental Protection Agency (U.S. EPA) methods:

- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) by SW-846 method 8260B
- Polynuclear Aromatic Hydrocarbons (PAH) by SW-846 method 8270C
- Synthetic Precipitation Leaching Procedure (SPLP) Metals (lead, chromium, and selenium) by SW-846 methods 1312 and 6010B

A level III data package was requested from FEL. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Organic Data Review" dated October 1999 and the U.S. EPA "Contract Laboratory Program National Functional Guidelines for Inorganic Data Review" dated October 2004. The attachment contains the results summary sheets.

**BTEX BY SW-846 METHOD 8260B**

**1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Analyzed</b>
PC-S-01-120707	7-5536-001	Soil	12/07/2007	12/07/2007

**2. Holding Times**

The sample was analyzed within the required holding time limit of 14 days from sample collection to analysis.

**3. Instrument Performance Check**

The instrument performance check using bromofluorobenzene (BFB) was performed and met the ion abundance criteria specified in method 8260B.

**4. Calibration Results**

For the initial calibration, the percent relative standard deviations (%RSD) for all compounds were less than 30.

The percent differences in the continuing calibration standard for all target compounds were within the control limit of less than or equal to 25 percent.

**5. Blanks**

A method blank was analyzed as required and was free of target compound contamination above the reporting limit.

**6. Surrogates**

The surrogate spike recoveries were within the laboratory-established quality control (QC) limits.

**7. Laboratory Control Sample (LCS) Results**

All LCS and LCS duplicate recoveries were within the laboratory-established QC limits.

**8. Internal Standard Results**

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than  $\pm 30$  seconds from the retention time of the associated continuing calibration standard.



**9. Overall Assessment**

The BTEX data are acceptable for use based on the information received.

**PAHs BY SW-846 METHOD 8270C**

**1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>
PC-S-01-120707	7-5536-001	Soil	12/07/2007	12/09/2007	12/10/2007

**2. Holding Times**

The sample was analyzed within the required holding time limit of 14 days from sample collection to extraction and 40 days from extraction to analysis.

**3. Instrument Performance Check**

The instrument performance check using decafluorotriphenylphosphine (DFTPP) met the ion abundance criteria specified in method 8270C.

**4. Calibration Results**

The initial calibration had acceptable results. The %RSD for all detected compounds were less than 30 and the average relative response factors were all greater than 0.05.

The %D in the CCV were within the QC limit of less than or equal to 20 percent for target compounds except for benzo(b)fluoranthene which had a difference of 22.5 percent. No qualification was applied for this minor discrepancy.

**5. Blanks**

A method blank was analyzed with the sample and was free of target compound contamination.

**6. Surrogates**

Surrogate recoveries were within the laboratory-established QC limits except in the sample fraction that was diluted. No qualification is required for low surrogate recovery due to sample dilution.

**7. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results**

FEL ran an MS and MSD using a sample from another site as the spike. No qualifications were applied for this omission.

**8. LCS Results**

The LCS recoveries were within the laboratory-established QC limits.

**9. Internal Standard Results**

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than  $\pm 30$  seconds from the retention time of the associated continuing calibration standard.

**10. Overall Assessment**

The PAH data are acceptable for use based on the information received.

**SPLP METALS AND SPLP METALS BY SW-846 METHODS 1312 AND 6010B**

**1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
PC-S-01-120707	7-5536-001	Soil	12/07/2007	12/11/2007

2. **Holding Times**

The sample was analyzed within the required holding time limit of 180 days from sample collection to analysis.

3. **Calibrations**

The initial calibration verification (ICV) and continuing calibration verification (CCV) standards were within the QC limits of 90 to 110 percent recovery (%R).

4. **Blank Results**

Blanks were analyzed with the sample and were free of target analyte contamination above the reporting limits.

5. **Interference Check Sample (ICS) Results**

The ICS solutions A and AB were analyzed. The recoveries in the ICS solution AB were within the QC limits of 80 to 120 %R.

6. **LCS Results**

The LCS recoveries were within the laboratory-established quality control limits for target analytes.

7. **MS and MSD Results**

For the SPLP metals analysis, FEL ran an MS and MSD using sample PC-S-01-120707 as the spiked sample. The recoveries were within the laboratory-established quality control limits.

8. **Overall Assessment**

The metals data are acceptable for use based on the information received.

Data Validation Report  
Pitney Court  
First Environmental Laboratories, Inc.  
Laboratory Project #: 7-5536

**ATTACHMENT**

**FIRST ENVIRONMENTAL LABORATORIES, INC.  
RESULTS SUMMARY**



1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

**PITNEY COURT  
CHICAGO, ILLINOIS  
DATA VALIDATION REPORT**

**Date:** January 18, 2008

**Laboratory:** First Environmental Laboratories, Inc. (FEL), Naperville, Illinois

**Laboratory Project #:** 7-5710

**Data Validation Performed By:** Lisa Graczyk, Dynamac Corporation (Dynamac), subcontractor to Weston Solutions, Inc. (Weston)

**Weston Analytical Work Order #/TDD #:** 20405.016.003.0208.00/S05-0003-0706-003

This data validation report has been prepared by Dynamac, under the START III Region V contract. This report documents the data validation for one soil sample collected for the Pitney Court Site that were analyzed for the following parameters and U.S. Environmental Protection Agency (U.S. EPA) methods:

- Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) by SW-846 method 8260B
- Polynuclear Aromatic Hydrocarbons (PAH) by SW-846 method 8270C

A level III data package was requested from FEL. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Organic Data Review" dated October 1999. The attachment contains the results summary sheets.

**BTEX BY SW-846 METHOD 8260B**

**1. Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Analyzed</b>
PC-S-01-121807	7-5710-001	Soil	12/18/2007	12/21/2007

**2. Holding Times**

The sample was analyzed within the required holding time limit of 14 days from sample collection to analysis.

**3. Instrument Performance Check**

The instrument performance check using bromofluorobenzene (BFB) was performed and met the ion abundance criteria specified in method 8260B.

**4. Calibration Results**

For the initial calibration, the percent relative standard deviations (%RSD) for all compounds were less than 30.

The percent differences in the continuing calibration standard for all target compounds were within the control limit of less than or equal to 25 percent.

**5. Blanks**

A method blank was analyzed as required and was free of target compound contamination above the reporting limit.

**6. Surrogates**

The surrogate spike recoveries were within the laboratory-established quality control (QC) limits.

**7. Laboratory Control Sample (LCS) Results**

All LCS and LCS duplicate recoveries were within the laboratory-established QC limits.

**8. Internal Standard Results**

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than  $\pm 30$  seconds from the retention time of the associated continuing calibration standard.

## 9. **Overall Assessment**

The BTEX data are acceptable for use based on the information received.

### **PAHs BY SW-846 METHOD 8270C**

## 1. **Samples**

The following table summarizes the samples for which this data validation is being conducted.

<b>Samples</b>	<b>Lab ID</b>	<b>Matrix</b>	<b>Date Collected</b>	<b>Date Prepared</b>	<b>Date Analyzed</b>
PC-S-01-121807	7-5710-001	Soil	12/18/2007	12/26/2007	12/27/2007

## 2. **Holding Times**

The sample was analyzed within the required holding time limit of 14 days from sample collection to extraction and 40 days from extraction to analysis.

## 3. **Instrument Performance Check**

The instrument performance check using decafluorotriphenylphosphine (DFTPP) met the ion abundance criteria specified in method 8270C.

## 4. **Calibration Results**

The initial calibration had acceptable results. The %RSD for all detected compounds were less than 30 and the average relative response factors were all greater than 0.05.

The %D in the CCV were within the QC limit of less than or equal to 20 percent for target compounds except for benzo(b)fluoranthene which had a difference of 22.5 percent. No qualification was applied for this minor discrepancy.

## 5. **Blanks**

A method blank was analyzed with the sample and was free of target compound contamination.



**6. Surrogates**

Surrogate recoveries were within the laboratory-established QC limits.

**7. Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Results**

FEL ran an MS and MSD using a sample from another site as the spike. No qualifications were applied for this omission.

**8. LCS Results**

The LCS recoveries were within the laboratory-established QC limits.

**9. Internal Standard Results**

The internal standard area counts were within -50 percent to +100 percent of the area counts in the associated continuing calibration standard. The retention time of the internal standards did not vary more than  $\pm 30$  seconds from the retention time of the associated continuing calibration standard.

**10. Overall Assessment**

The PAH data are acceptable for use based on the information received.

Data Validation Report  
Pitney Court  
First Environmental Laboratories, Inc.  
Laboratory Project #: 7-5710

**ATTACHMENT**

**FIRST ENVIRONMENTAL LABORATORIES, INC.  
RESULTS SUMMARY**



**First  
Environmental  
Laboratories, Inc.**

IL ELAP / NELAC Accreditation # 100292

1600 Shore Road • Naperville, Illinois 60563 • Phone (630) 778-1200 • Fax (630) 778-1233

**Analytical Report**

**Client:** DYNAMAC CORPORATION

**Date Collected:** 12/18/07

**Project ID:** 05-PC-12/19/07-0014

**Time Collected:** 10:30

**Sample ID:** PC-S-01-121807

**Date Received:** 12/19/07

**Sample No:** 7-5710-001

**Date Reported:** 12/28/07

Results are reported on a dry weight basis.

Analyte	Result	R.L.	Units	Flags
<b>Solids, Total</b> Method: 160.3				
Analysis Date: 12/20/07				
Total Solids	75.46		%	
<b>BTEX Organic Compounds</b> Method: 5035A/8260B				
Analysis Date: 12/21/07				
Benzene	< 5.0	5.0	ug/kg	
Ethylbenzene	< 5.0	5.0	ug/kg	
Toluene	< 5.0	5.0	ug/kg	
Xylene, Total	< 5.0	5.0	ug/kg	
<b>Polynuclear Aromatic Hydrocarbons</b> Method: 8270C				
Analysis Date: 12/27/07				
		<b>Preparation Method 3540C</b>		
		Preparation Date: 12/26/07		
Acenaphthene	390	50	ug/kg	
Acenaphthylene	916	50	ug/kg	
Anthracene	17,300	50	ug/kg	
Benzo(a)anthracene	4,610	8.7	ug/kg	
Benzo(a)pyrene	4,140	15	ug/kg	
Benzo(b)fluoranthene	3,780	11	ug/kg	
Benzo(k)fluoranthene	2,510	11	ug/kg	
Benzo(ghi)perylene	2,200	50	ug/kg	
Carbazole	408	330	ug/kg	
Chrysene	4,270	50	ug/kg	
Dibenzo(a,h)anthracene	998	20	ug/kg	
Fluoranthene	10,300	50	ug/kg	
Fluorene	618	50	ug/kg	
Indeno(1,2,3-cd)pyrene	2,430	29	ug/kg	
2-Methylnaphthalene	951	50	ug/kg	
Naphthalene	710	25	ug/kg	
Phenanthrene	7,650	50	ug/kg	
Pyrene	9,920	50	ug/kg	